

Expectations and Outcomes

Grade Level/Course: 10-12

Content Area: Agriculture

Unit Title	Guarantees
Unit 1- Class-SAE-FFA	<p>Compare and contrast desirable anatomical and physiological characteristics of animals within and between species.</p> <p>Assess an animal to determine if it has reached its optimal performance level based on anatomical and physiological characteristics.</p> <p>Perform simple health-check evaluations on animals.</p> <p>Design programs that assure the welfare of animals and prevent abuse or mistreatment.</p> <p>Select equipment and implement animal handling procedures and improvements to enhance production efficiency.</p> <p>Implement measures to reduce the impact of animal agriculture on the environment.</p> <p>Describe the effects of environmental conditions on animal populations and performance.: Establish and maintain favorable environmental conditions for animal growth and performance.</p> <p>Develop an action plan to set and achieve realistic goals.</p> <p>Participate in co-curricular and community activities to enhance the school experience.</p> <p>Defend a position or decision using relevant, valid and timely data and information.</p> <p>Create media products using common principles of graphic design.</p>
Unit 2 - Animal Industry:	<p>Explain how animals are classified using Linnaeus’s taxonomical classification system.</p> <p>Compare and contrast the hierarchical classification of the major agricultural animal species.</p> <p>Compare and contrast organ types, functions and body systems adaptations among and between animal species.</p> <p>Outline safety procedures for working with animals by species.</p> <p>Design programs that assure the welfare of animals and prevent abuse or mistreatment.</p> <p>Interpret animal behaviors and execute protocols for safe handling of animals.</p> <p>Explain how modern equipment and handling facilities enhance the safe and economic production of animals.</p> <p>Describe the effects of environmental conditions on animal populations and performance.</p> <p>Evaluate various occupations and career pathways to identify personal, academic and career goals</p>

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	<p>based on personal strengths, aptitudes and passions.</p> <p>Determine those opportunities that best support attainment of a specific career goal.</p> <p>Interpret and analyze the impact of current education, training and work trends on life, learning and career plans.</p> <p>Assess education and training opportunities to acquire new skills necessary for career advancement.</p> <p>Evaluate the relationship between educational achievement and career development.</p> <p>Use multiple resources to locate job opportunities.</p> <p>Prepare a resume, cover letter, employment application.</p> <p>Summarize key activities necessary to retain a job in an industry.</p>
Unit 3 - Animal Health	<p>Compare and contrast animal cells, tissues organs and body systems and describe their functions.</p> <p>Explain the relationship, importance and uses of animal tissues to growth, performance and health in the agriculture industry.</p> <p>Compare and contrast organ types, functions and body systems adaptations among and between animal species.</p> <p>Describe the molecular makeup of animal cells and organs and their importance in animal growth, health, production, reproduction and management.</p> <p>Explain the impact of animal body systems on health, growth and reproduction.</p> <p>Compare and contrast desirable anatomical and physiological characteristics of animals within and between species.</p> <p>Assess an animal to determine if it has reached its optimal performance level based on anatomical and physiological characteristics.</p> <p>Perform diagnostic tests to detect health problems in animals</p> <p>Diagnose illnesses and disorders of animals based on symptoms and problems caused by diseases, parasites and physiological disorders.</p> <p>Evaluate preventive measures for controlling and limiting the spread of diseases, parasites and disorders among animals.</p> <p>Explain the health risk of zoonotic diseases to humans and their historical significance and future implications.</p> <p>Outline safety procedures for working with animals by species.</p> <p>Interpret animal behaviors and execute protocols for safe handling of animals.</p>
Unit 4 - Preventing & Treating Disease	<p>Compare and contrast animal cells, tissues organs and body systems and describe their functions.</p> <p>Explain the relationship, importance and uses of animal tissues to growth, performance and health in the agriculture industry.</p>

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	<p>Compare and contrast organ types, functions and body systems adaptations among and between animal species.</p> <p>Explain the impact of animal body systems on health, growth and reproduction.</p> <p>Compare and contrast desirable anatomical and physiological characteristics of animals within and between species.</p> <p>Assess an animal to determine if it has reached its optimal performance level based on anatomical and physiological characteristics.</p> <p>Develop efficient procedures to produce consistently high quality animals, well suited for their intended purposes.</p> <p>Perform simple health-check evaluations on animals.</p> <p>Perform diagnostic tests to detect health problems in animals</p> <p>Diagnose illnesses and disorders of animals based on symptoms and problems caused by diseases, parasites and physiological disorders.</p> <p>Treat common diseases, parasites and physiological disorders of animals.</p> <p>Evaluate preventive measures for controlling and limiting the spread of diseases, parasites and disorders among animals.</p> <p>Prepare animals, facilities and equipment for surgical and nonsurgical veterinary treatments and procedures.: Perform surgical and nonsurgical veterinary treatments and procedures in animal health care.</p> <p>Discuss consumer concerns with animal production practices relative to human health.</p> <p>Describe the effects of environmental conditions on animal populations and performance</p>
Unit 5 - Animal Nutrition	<p>Compare and contrast animal cells, tissues organs and body systems and describe their functions.</p> <p>Explain the relationship, importance and uses of animal tissues to growth, performance and health in the agriculture industry.</p> <p>Compare and contrast organ types, functions and body systems adaptations among and between animal species.</p> <p>Describe the molecular makeup of animal cells and organs and their importance in animal growth, health, production, reproduction and management.</p> <p>Explain the impact of animal body systems on health, growth and reproduction.</p> <p>Compare and contrast desirable anatomical and physiological characteristics of animals within and between species.</p> <p>Develop efficient procedures to produce consistently high quality animals, well suited for their intended purposes.</p>

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	<p>Diagnose illnesses and disorders of animals based on symptoms and problems caused by diseases, parasites and physiological disorders.</p> <p>Evaluate preventive measures for controlling and limiting the spread of diseases, parasites and disorders among animals.</p> <p>Determine the relative nutritional value of feedstuffs by evaluating their general quality and condition.</p> <p>Appraise the adequacy of feed rations using data from the analysis of feedstuffs, animal requirements and performance.</p> <p>Select appropriate feedstuffs for animals based on factors such as economics, digestive system and nutritional needs.</p> <p>Formulate animal feeds based on nutritional requirements, using feed ingredients for maximum nutrition and optimal economic production.</p> <p>Discuss how feed additives and growth proponents are administered and the precautions that should be taken.</p>
Unit 6 - Small Animal Care	<p>Compare and contrast organ types, functions and body systems adaptations among and between animal species.</p> <p>Explain the impact of animal body systems on health, growth and reproduction.</p> <p>Compare and contrast desirable anatomical and physiological characteristics of animals within and between species.</p> <p>Develop efficient procedures to produce consistently high quality animals, well suited for their intended purposes.</p> <p>Outline safety procedures for working with animals by species.</p> <p>Design programs that assure the welfare of animals and prevent abuse or mistreatment.</p>